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SEQUENCE LISTING

<110> CIHLAR, TOMAS

<120> NOVEL GENE ENCODING ORGANIC ANION TRANSPORTER

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<140> 10/086,816

<141> 2002-02-28

<150> 09/330,245

<151> 1999-06-10

<150> 60/132,267

<151> 1999-05-03

<150> 60/088,864

<151> 1998-06-11

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<170> PatentIn Ver. 2.1

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Pro Leu Leu Leu Met Ala Ser His Asn Thr Leu Gln Asn Phe Thr Ala
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Ala Ile Pro Thr His His Cys Arg Pro Pro Ala Asp Ala Asn Leu Ser
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Pro Glu Ser Cys Leu Arg Phe Thr Ser Pro Gln Trp Gly Leu Pro Phe	
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Leu Asn Gly Thr Glu Ala Asn Gly Thr Gly Ala Thr Glu Pro Cys Thr	
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gat ggc tgg atc tat gac aac agc acc ttc cca tct acc atc gtg act	628
Asp Gly Trp Ile Tyr Asp Asn Ser Thr Phe Pro Ser Thr Ile Val Thr	
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Glu Trp Asp Leu Val Cys Ser His Arg Ala Leu Arg Gln Leu Ala Gln	
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Gln Thr Ala Val Ser Gly Thr Cys Ala Ala Phe Ala Pro Asn Phe Pro	
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Ile Tyr Cys Ala Phe Arg Leu Leu Ser Gly Met Ala Leu Ala Gly Ile	
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Phe Leu Leu Ala Gly Val Ala Tyr Ala Val Pro His Trp Arg His Leu	
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Gln Leu Leu Val Ser Ala Pro Phe Phe Ala Phe Phe Ile Tyr Ser Trp	
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270 275 280	

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Leu Thr Leu Arg Ala Leu Gln Arg Val Ala Arg Ile Asn Gly Lys Arg	
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gaa gaa gga gcc aaa ttg agt atg gag gta ctc cgg gcc agt ctg cag	1204
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Lys Glu Leu Thr Met Gly Lys Gly Gln Ala Ser Ala Met Glu Leu Leu	
315 320 325 330	
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Arg Cys Pro Thr Leu Arg His Leu Phe Leu Cys Leu Ser Met Leu Trp	
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Phe Gly Val Ser Ile Tyr Leu Ile Gln Val Ile Phe Gly Ala Val Asp	
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Leu Pro Ala Lys Leu Val Gly Phe Leu Val Ile Asn Ser Leu Gly Arg	
380 385 390	
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Arg Pro Ala Gln Met Ala Ala Leu Leu Leu Ala Gly Ile Cys Ile Leu	
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ctc aat ggg gtg ata ccc cag gac cag tcc att gtc cga acc tct ctt	1540
Leu Asn Gly Val Ile Pro Gln Asp Gln Ser Ile Val Arg Thr Ser Leu	
415 420 425	
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Ala Val Leu Gly Lys Gly Cys Leu Ala Ala Ser Phe Asn Cys Ile Phe	
430 435 440	
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445 450 455	
gga atg ggc agc acc atg gcc cga gtg ggc agc atc gtg agc cca ctg	1684
Gly Met Gly Ser Thr Met Ala Arg Val Gly Ser Ile Val Ser Pro Leu	
460 465 470	
gtg agc atg act gcc gag ctc tac ccc tcc atg cct ctc ttc atc tac	1732
Val Ser Met Thr Ala Glu Leu Tyr Pro Ser Met Pro Leu Phe Ile Tyr	
475 480 485 490	
ggt gct gtt cct gtg gcc gcc agc gct gtc act gtc ctc ctg cca gag	1780
Gly Ala Val Pro Val Ala Ala Ser Ala Val Thr Val Leu Leu Pro Glu	
495 500 505	

acc ctg ggc cag cca ctg cca gac acg gtg cag gac ctg gag agc agg 1828  
 Thr Leu Gly Gln Pro Leu Pro Asp Thr Val Gln Asp Leu Glu Ser Arg  
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aaa ggg aaa cag acg cga cag caa caa gag cac cag aag tat atg gtc 1876  
 Lys Gly Lys Gln Thr Arg Gln Gln Gln Glu His Gln Lys Tyr Met Val  
                   525                  530                  535

cca ctg cag gcc tca gca caa gag aag aat gga ctc tgaggactga 1922  
 Pro Leu Gln Ala Ser Ala Gln Glu Lys Asn Gly Leu  
                   540                  545                  550

gaagggggcct tacagaaccc taaagggagg gaaggtccta caggtctccg gccacccaca 1982

caaggaggag gaagaggaaa tgggtgaccca agtgtggggg ttgtggttca ggaaagcatc 2042

ttcccagggg tccacctccc ttataaaacc ccaccagaac cacatcatta aaagggttga 2102

ctgcgaaaaa aaaaaaaaaa a 2123

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Ser His Asn Thr Leu Gln Asn Phe Thr Ala Ala Ile Pro Thr His His  
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Cys Arg Pro Pro Ala Asp Ala Asn Leu Ser Lys Asn Gly Gly Leu Glu  
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Val Trp Leu Pro Arg Asp Arg Gln Gly Gln Pro Glu Ser Cys Leu Arg  
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Phe Thr Ser Pro Gln Trp Gly Leu Pro Phe Leu Asn Gly Thr Glu Ala  
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Asn Gly Thr Gly Ala Thr Glu Pro Cys Thr Asp Gly Trp Ile Tyr Asp  
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Asn Ser Thr Phe Pro Ser Thr Ile Val Thr Glu Trp Asp Leu Val Cys  
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Ser His Arg Ala Leu Arg Gln Leu Ala Gln Ser Leu Tyr Met Val Gly  
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Thr	Cys	Ala	Ala	Phe	Ala	Pro	Asn	Phe	Pro	Ile	Tyr	Cys	Ala	Phe	Arg	180	185	190	
Leu	Leu	Ser	Gly	Met	Ala	Leu	Ala	Gly	Ile	Ser	Leu	Asn	Cys	Met	Thr	195	200	205	
Leu	Asn	Val	Glu	Trp	Met	Pro	Ile	His	Thr	Arg	Ala	Cys	Val	Gly	Thr	210	215	220	
Leu	Ile	Gly	Tyr	Val	Tyr	Ser	Leu	Gly	Gln	Phe	Leu	Leu	Ala	Gly	Val	225	230	235	240
Ala	Tyr	Ala	Val	Pro	His	Trp	Arg	His	Leu	Gln	Leu	Leu	Val	Ser	Ala	245	250	255	
Pro	Phe	Phe	Ala	Phe	Phe	Ile	Tyr	Ser	Trp	Phe	Phe	Ile	Glu	Ser	Ala	260	265	270	
Arg	Trp	His	Ser	Ser	Ser	Gly	Arg	Leu	Asp	Leu	Thr	Leu	Arg	Ala	Leu	275	280	285	
Gln	Arg	Val	Ala	Arg	Ile	Asn	Gly	Lys	Arg	Glu	Glu	Gly	Ala	Lys	Leu	290	295	300	
Ser	Met	Glu	Val	Leu	Arg	Ala	Ser	Leu	Gln	Lys	Glu	Leu	Thr	Met	Gly	305	310	315	320
Lys	Gly	Gln	Ala	Ser	Ala	Met	Glu	Leu	Leu	Arg	Cys	Pro	Thr	Leu	Arg	325	330	335	
His	Leu	Phe	Leu	Cys	Leu	Ser	Met	Leu	Trp	Phe	Ala	Thr	Ser	Phe	Ala	340	345	350	
Tyr	Tyr	Gly	Leu	Val	Met	Asp	Leu	Gln	Gly	Phe	Gly	Val	Ser	Ile	Tyr	355	360	365	
Leu	Ile	Gln	Val	Ile	Phe	Gly	Ala	Val	Asp	Leu	Pro	Ala	Lys	Leu	Val	370	375	380	
Gly	Phe	Leu	Val	Ile	Asn	Ser	Leu	Gly	Arg	Arg	Pro	Ala	Gln	Met	Ala	385	390	395	400
Ala	Leu	Leu	Leu	Ala	Gly	Ile	Cys	Ile	Leu	Leu	Asn	Gly	Val	Ile	Pro	405	410	415	
Gln	Asp	Gln	Ser	Ile	Val	Arg	Thr	Ser	Leu	Ala	Val	Leu	Gly	Lys	Gly	420	425	430	
Cys	Leu	Ala	Ala	Ser	Phe	Asn	Cys	Ile	Phe	Leu	Tyr	Thr	Gly	Glu	Leu	435	440	445	
Tyr	Pro	Thr	Met	Ile	Arg	Gln	Thr	Gly	Met	Gly	Met	Gly	Ser	Thr	Met	450	455	460	

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Leu Tyr Pro Ser Met Pro Leu Phe Ile Tyr Gly Ala Val Pro Val Ala  
 485 490 495

Ala Ser Ala Val Thr Val Leu Leu Pro Glu Thr Leu Gly Gln Pro Leu  
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Pro Asp Thr Val Gln Asp Leu Glu Ser Arg Lys Gly Lys Gln Thr Arg  
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Gln Glu Lys Asn Gly Leu  
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